FEATURES

AND

SPECIFICATIONS

SERIES 1100
25/29" CGA COLOUR MONITOR

OPEN FRAME

PENTRANIC

E U R O P E   L T D

SYN — GND G R B

Prepared by: Pentranic Engineering

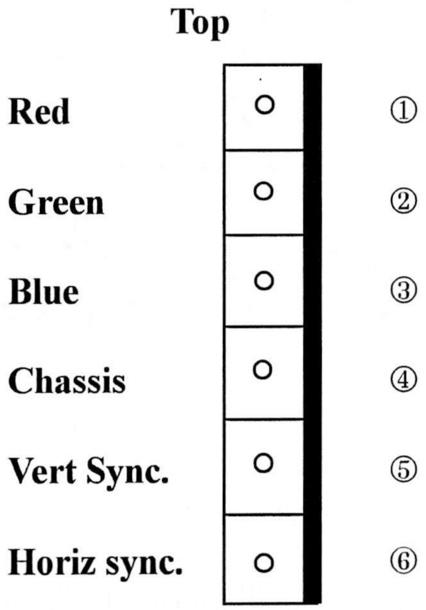
FEATURES

- **Remote Control PCB**
- **Automatic Degaussing**
- **110 - 240v AC Switched Mode Power Supply**
- **Complete “Picture Quality” Adjustment Controls**
- **Easy Mounting Design**
- **Chassis and Neck Board Steel Shield Protection**
- **High Efficiency, Low Power Flyback Transformer**
- **Horizontal Mounting**
- **Factory Set Purity. Convergence**
- **Precision In Line CRT**
- **Deflection Yolk Orientation**

SPECIFICATIONS

- Resolution, 560 x 240 (CGA)
- 6 Pin RGB. Analog Input Signal - 0.7 to 5V p. p.
- 5Kohm Input Impedance Bandwidth 25 Mhz -3db
- Sync. Negative, 12 Kohm Nominal Input Impedance.
- Scanning Frequency:15.75 (CGA)
- Power Supply: 85 - 260 v.A.C.
- Power Consumption 100 Watts max.
- Vertical Frequency 50 - 60 Hz.
- Degaussing: Automatic at Switch on (Reset time 6 Minutes)

VIDEO INPUT CONNECTOR



ADJUSTMENT CONTROLS
MAIN CHASSIS

***CONTRAST**
Adjusts the ratio of dark and light areas of the picture.
***BRIGHT**
Adjusts the brightness level in the picture.
***H WIDTH**
Used to set the width of the picture.
***PIN. CUSH**
Adjusts the horizontal edges for linearity.
***V. POSI**
Used to vertically centre the picture.
***V. LIN**
Adjusts the vertical linearity of the picture.
***V. SIZE**
Used to set the vertical height of the picture.
***V. HOLD**
Adjust to stop vertical rolling.
***H. HOLD**
Adjust to stop horizontal scrolling.
***H. POSI**
Used to horizontally centre the picture.
HT. (VR 501)
Adjusts the high voltage to the CRT.
FOCUS
Adjust for definition and detail.
SCREEN
Adjusts the brightness on the screen.

NECK BOARD

Red Drive. VR 702. Adj Red Level
Blue Drive. VR 703. Adj Blue Level
(Sub Brightness) VR 704.
Red Cut off VR 721. Background Control - Bias
Blue Cut off VR 722. Background Control - Bias
Green Cut off VR 723. Background Control - Bias

SAFETY INFORMATION

HIGH VOLTAGE

SERVICE SHOULD ONLY BE ATTEMPTED BY PERSONNEL FAMILIAR WITH THE DANGERS INHERENT WITH HIGH VOLTAGE EQUIPMENT. ALWAYS DISCHARGE HIGH VOLTAGE AT THE ANODE CAP BEFORE HANDLING OR SERVICE.

CRT PROTECTION

PENTRANIC PICTURE TUBES ARE EQUIPPED WITH AN INTEGRAL IMPLOSION PROTECTION SYSTEM. CARE MUST BE EXERCISED SO AS NOT TO BUMP OR SCRATCH THE CRT DURING INSTALLATION OR SERVICE. NEVER HANDLE THE CRT BY THE NECK. PERSONNEL SHOULD USE GLOVES, GOGGLES AND PROTECTIVE CLOTHING WHEN EVER HANDLING THE PICTURE TUBE.

!!X-RAY RADIATION!!

HIGH VOLTAGE AND HORIZONTAL DEFLECTION ARE SET AT OUR FACTORY. ANY ATTEMPT TO MODIFY THESE CIRCUITS COULD RESULT IN <u>X-RAY RADIATION EMISSIONS</u>

SERVICING

WHEN SERVICING THE PRIMARY SIDE OF THE SWITCHED MODE POWER SUPPLY UNDER LINE CONDITIONS A SUITABLE ISOLATING TRANSFORMER (200 WATTS) MUST BE INSERTED IN SERIES WITH THE MAINS SUPPLY

WHEN SERVICING THE SWITCHED MODE POWER SUPPLY UNDER A FAULT CONDITION IT IS ADVISABLE TO DISCHARGETHE SMOOTHING CAPACITOR (C534) WITH A RESISTOR OF APPROXIMATELY 100 Ω BEFORE DOING ANY COLD CHECKS

BLACK LEVEL SETTING

1) Leave Monitor on for 10 Minutes.

2) Remove the Video Signal.

3) Adjust VR1 Pre-set Brightness to minimum (on Remote PCB).

4) Adjust VR721, 722 & 723 to Mid travel (CRT Base PCB).

5) Adjust VR704 to give reading of 180v at RGB Collectors.

6) Adjust G2 (Screen) on the Line Output Transformer to obtain a Raster which is only just visible.

7) Adjust VR1 to maximum.

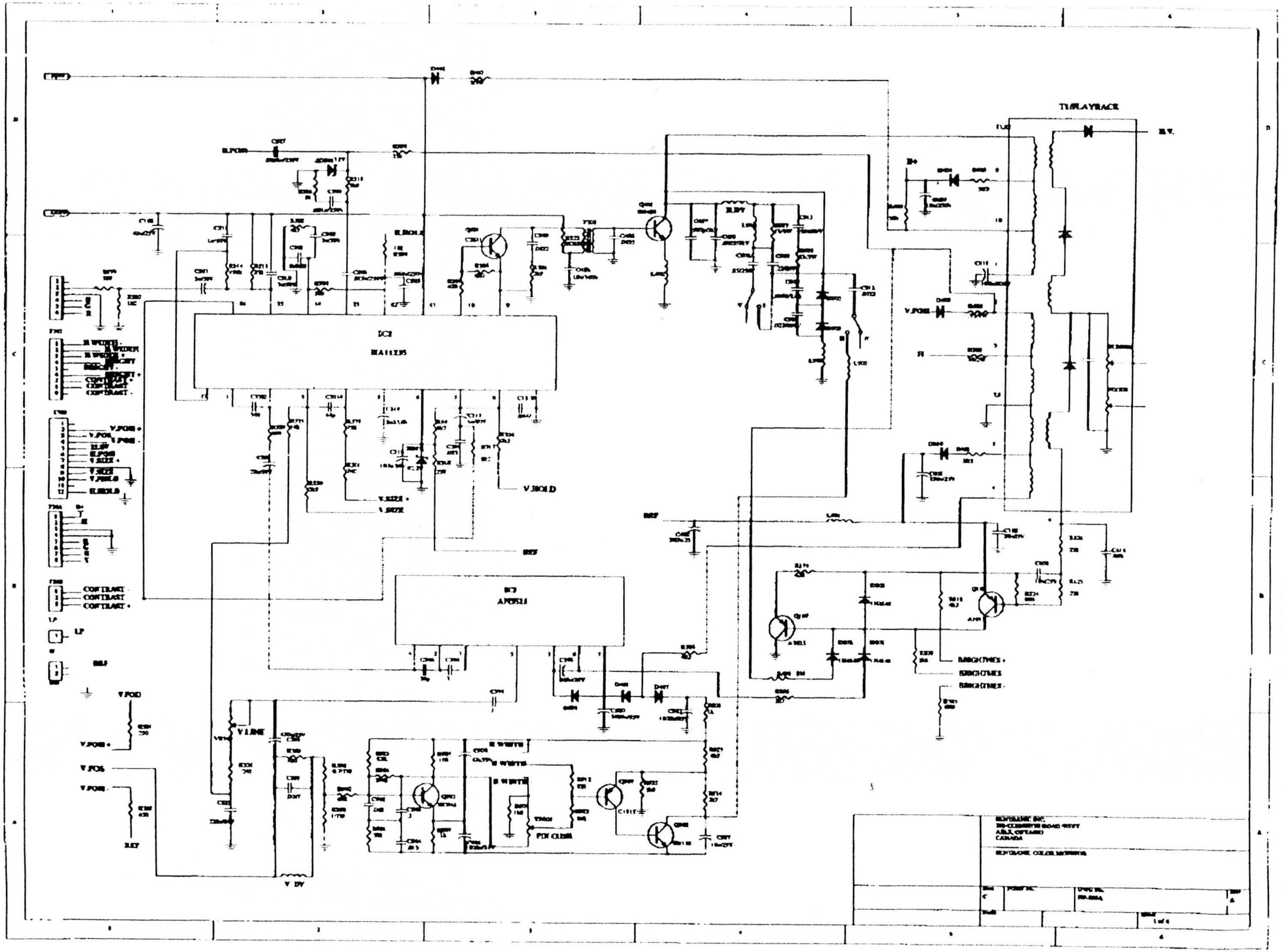
8) Eliminate any Predominating Colour by adjustment of VR721, 722 & 723 to obtain best Grey-Scale.

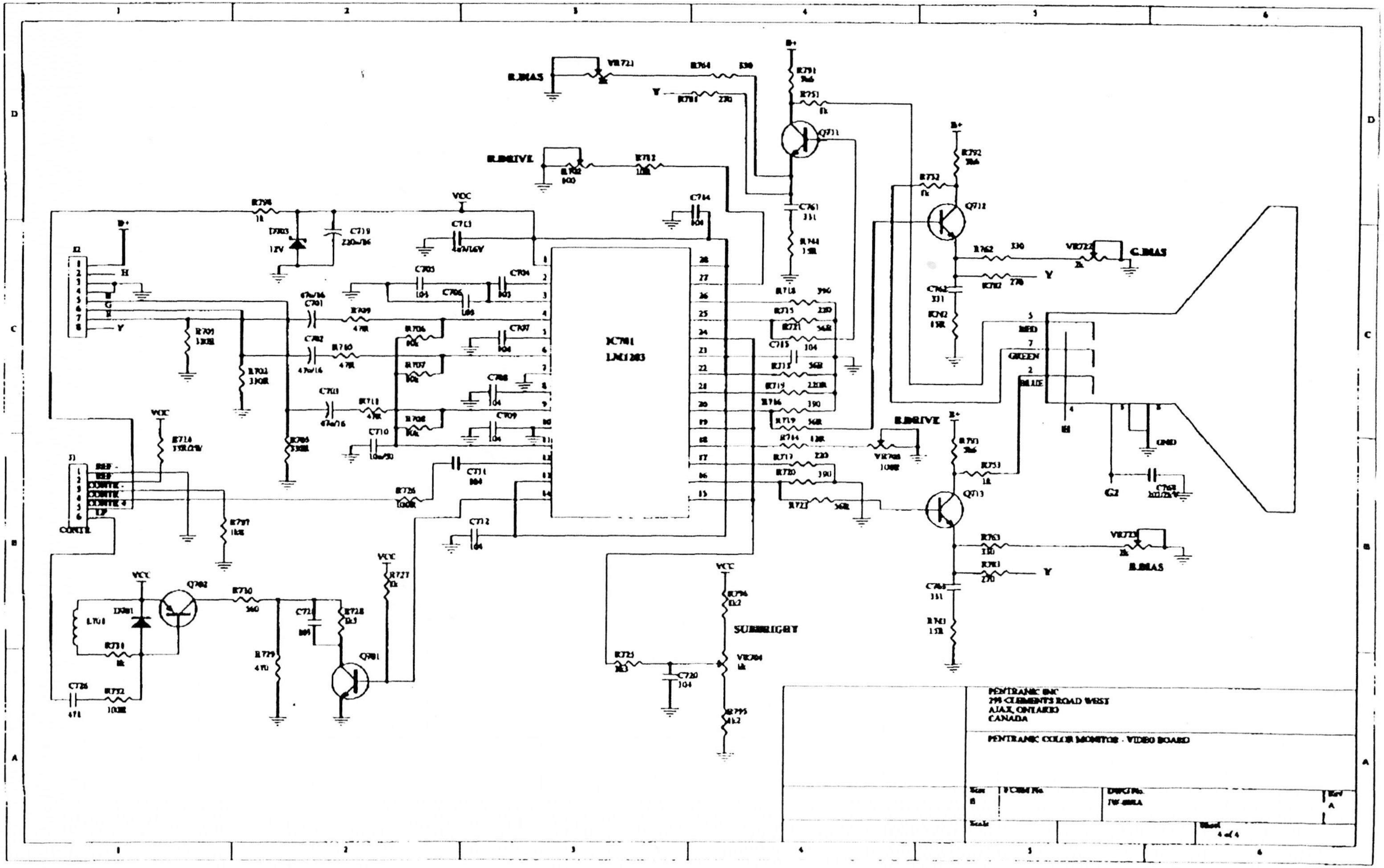
WHITE LEVEL SETTING

1) Adjust VR1 (Brightness) and VR8 (Contrast) on Remote PCB to Maximum.

2) Apply Video Signal.

3) Adjust VR702 & VR703 (Red and Blue drive) to Obtain best White Level possible.


T1/FLYBACK
H.V.
IC2
IC3
V.HOLD
V.SIZE
V.LINE
V.DY
V.POS
V.POS +
V.POS -
B+
CONTRAST
CONTRAST +
CONTRAST -
H.WIDTH
BRIGHTNESS
BRIGHTNESS +
BRIGHTNESS -
H.HOLD
LP
PIN CUSH
CANADA
1 of 4



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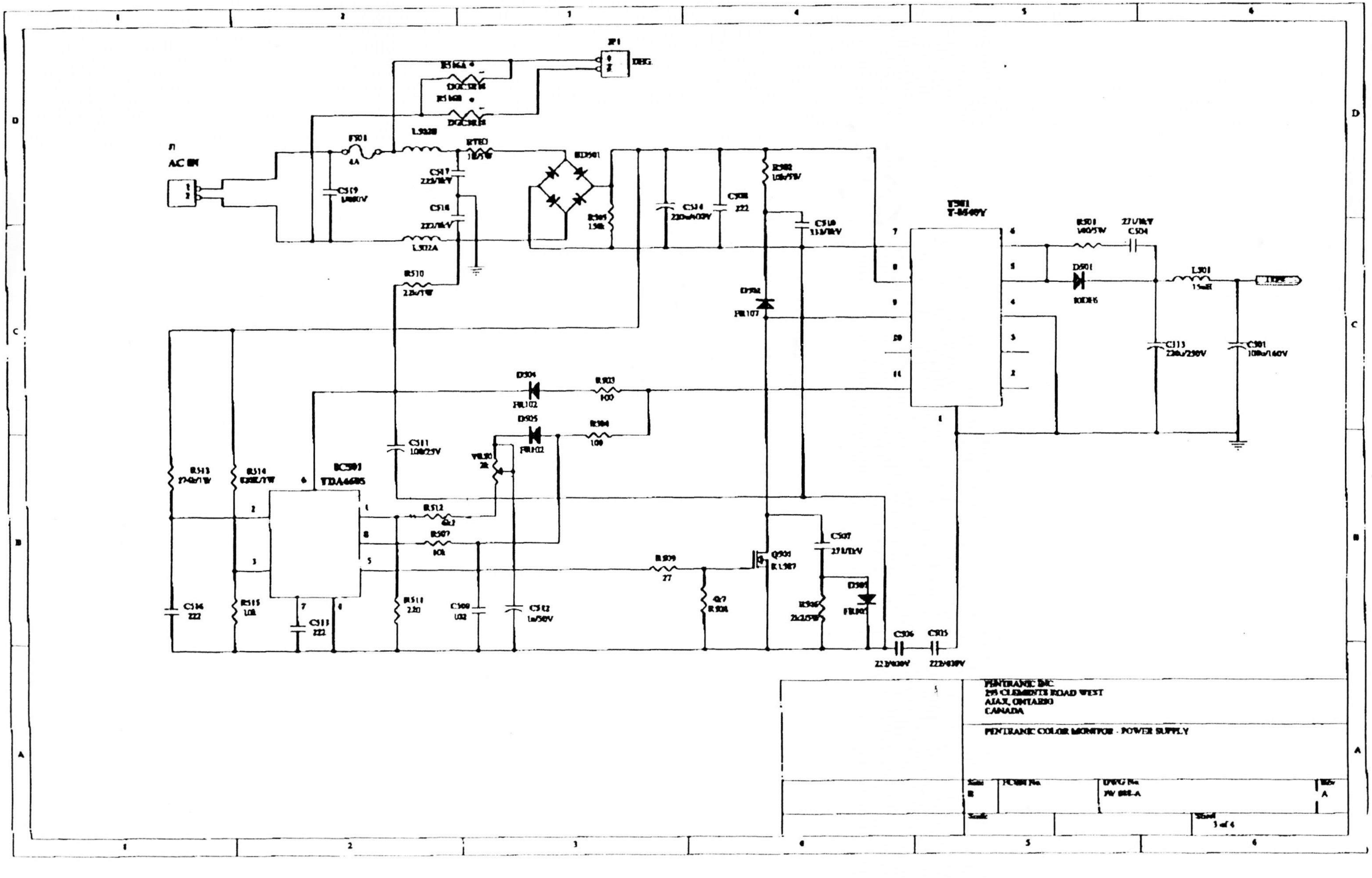
295 CLEMENTS ROAD WEST
AJAX, ONTARIO
CANADA

PENTRANIC COLOR MONITOR - VIDEO BOARD

Size	FCSM No.	DWG No.	Rev
B		7W-400A	A
Scale		Sheet 4 of 4	



AC IN
J1
F501
4A
C519
L502B
L502A
RTH1
BD501
R505
C514
C508
222
R502
C510
D502
FR107
T501
L501
D501
C113
230u/250V
C301
100u/160V
R510
C511
100/25V
D504
FR102
R503
D505
R504
100
VR501
IC501
TDA4605
R513
R514
R515
C516
C513
R512
R507
R511
C500
C512
R509
27
Q501
C507
R506
D503
C506
C505
JP1
DEG
PENTRANIC INC
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CANADA
PENTRANIC COLOR MONITOR - POWER SUPPLY
Size
B
PCB No.
DWG No.
Rev
A
Scale
Sheet
3 of 4

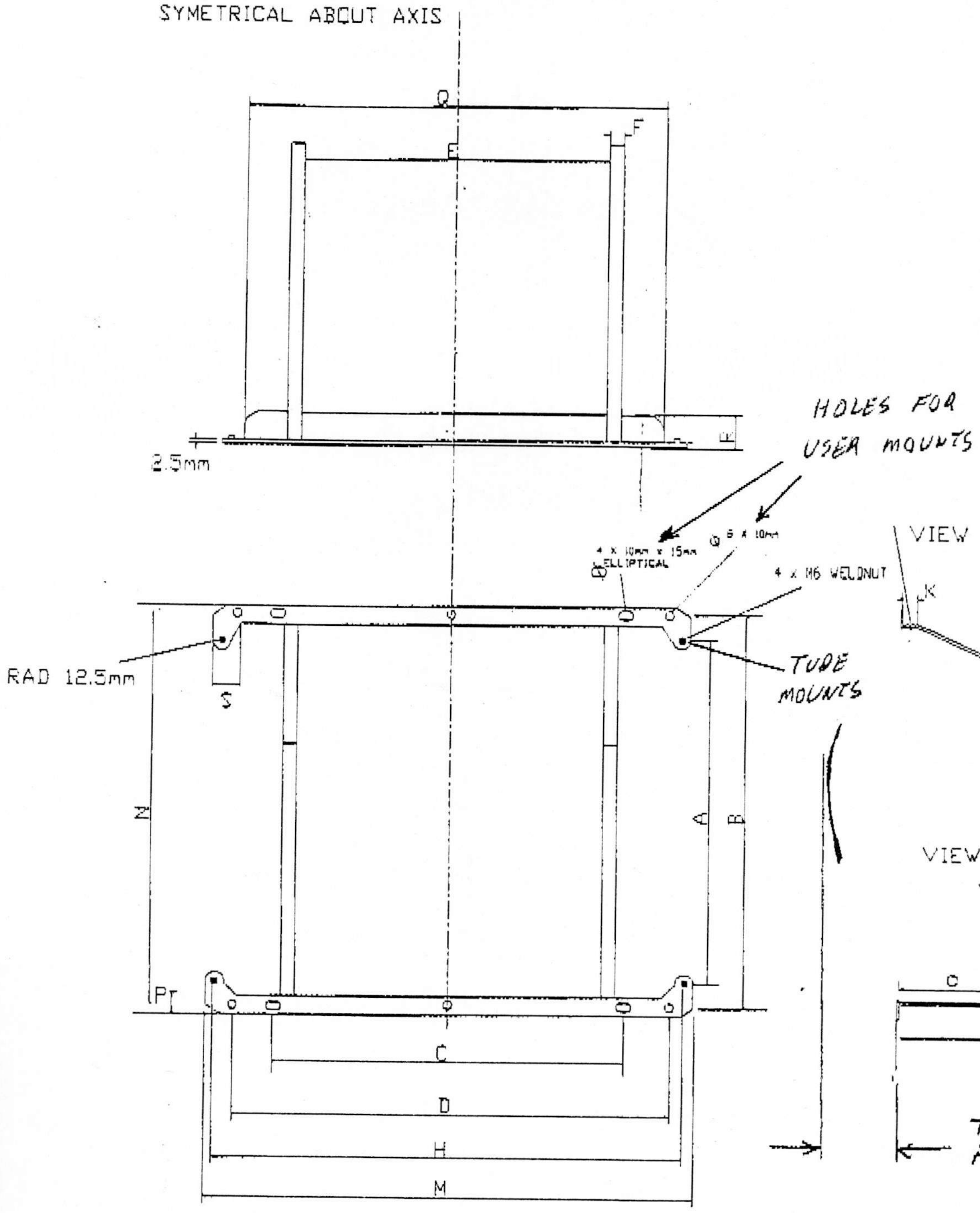
19/03/96 11:29

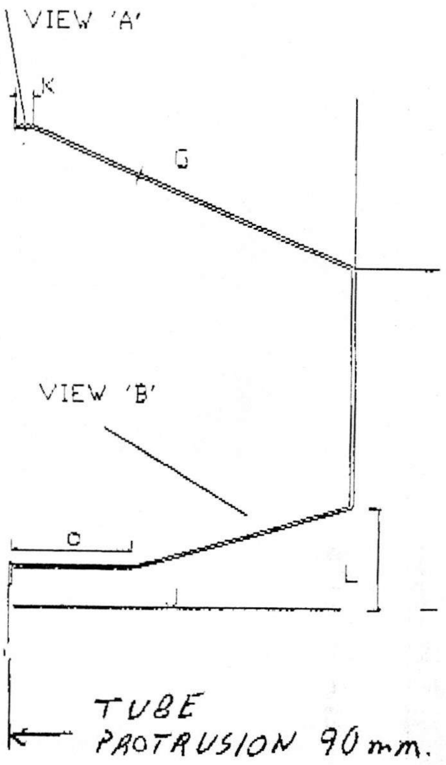
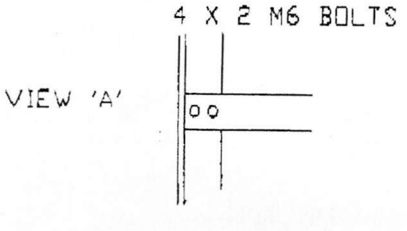
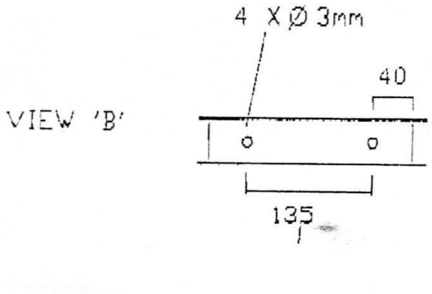
NO. 122 P02

29" FRAME SPECIFICATIONS

13th March 1996

PENTRANIC
EUROPE LTD



DIMENSIONS
IN MM.

A	472
B	542
C	490
D	562
E	230
F	25
G	5
H	598
I	390
J	440
K	38
L	100
M	640
N	560
O	170
P	25
Q	550
R	30
S	40